



### Conversion Tables Q&As

**1. Does Wisconsin have regulations which dictate the parameters of the ASME Code Sec. VIII Div. 1 U1 and therefore a pressure vessel with the limit data shown has to be designed and manufactured according to ASME?**

**Shell side: Medium: water or mixture of water and ethylenglycol Tube side: Medium: exhaust gas**

**Max. pressure 6 barg 0,1 barg**

**Max. temperature 99°C 500°C**

**These Exhaust Gas Heat Exchangers (EGHE) are usually designed according to the Pressure Equipment Directive (PED 97/23/EC), which is standard in the European markets.,**

**Can someone manufacture the EGHE according to PED if the operating parameters of the pressure vessel do not exceed the limit data which are listed?**

**Answer:** Wisconsin requires ASME construction and National Board registration of all boilers and pressure vessels per SPS 341.42. Each unit must have the ASME stamping and should have manufacturer's data U-1A report. Vessels below limit data in applicable ASME Section(s) need not be ASME stamped and shall be verified / shown exempt per specific applicable ASME code sections by the owner / user at installation, preferably with the assistance of the manufacturer.

**2. How does someone convert MPa to PSI or PSI to MPa?**

**Answer:** 1 megapascal = 145.037738 pound-force/square inch (PSI) and 1 psi = 0.00689 MPa

See <http://www.chapelsteel.com/mpa-psi.html>

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[Conversion tables, including from PSI to MPa](#)